

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

distortion in ionospheric scatter

CITED SOURCE

SIATPSC, IZ, VERDUT

TOPIC TAGS: ionospheric scatter, bandwidth, correlation coefficient

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

account. 14. D.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

L 19651-63

EM(1)/BDS/EEC-2/ES(v)

AFFTC/ASD/AFHDC/ZSD-3/APGC Pe-4/

P1-4/Po-4/Pq-4 RB/PT-2

ACCESSION NR: AR3007001

S/0058/63/000/008/H033/H033

SOURCE: RZh. Fizika, Abs. 8Zh216

AUTHOR: Vetshev, Zh. N.

TITLE: Measurement of the phase difference fluctuations of scattered radio waves received by separated antennas

CITED SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te,  
vy\*p. 41, 1962, 103-108

TOPIC TAGS: Radio signal , phase difference measurement, 21 Mc band

TRANSLATION: Apparatus and a procedure are described for the measurement of the fluctuations in the phase difference of 21 Mc signals, carried out in April--May 1960 along a path of ionospheric scattering 1340 kilometers long with two-channel reception using two half-wave dipoles separated in a direction perpendicular to the

Card 1/2



L 19651-63

ACCESSION NR: AR3007001

path by  $2\lambda$ , and situated 20 meters above the earth's surface. The signals from the outputs of both channel receivers were fed to a phase-meter device and recorded. The dispersion of the fluctuations and the integral distribution of the phase difference were determined from the records. The over-all error in the measurement of the phase difference did not exceed 5%. The intensity of the fluctuations of the phase differences has a daily variation with maximum in morning hours, and is determined by the degree of ionization of the ionosphere. The instantaneous values of the fluctuations have a normal distribution. The dispersion of the arrival angles lies within  $1-2.5^\circ$ . I. P.

DATE ACQ: 06Sep63

SUB CODE: PH, CC

ENCL: 00

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

AUTHOR: Vetshev, Zh. N.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

L 19650-63

ENT(1)/ENO(k)/BDS/EEC-2/ES(v)

AFTTC/ASD/AFMDC/ESD-3/APGC/

SSD Pz-4/Pe-4/Pl-4/Pl-4 RB/PT-2/JHB/GH

ACCESSION NR: AR3007002

S/0058/63/000/008/H033/H034

SOURCE: RZh. Fizika, Abs. 8Zh217

AUTHOR: Vetshev, Zh. N.; Bocharov, V. I.; Afonina, L. Ya.

TITLE: Experimental investigation of statistical properties of a signal in ionospheric propagation at frequencies above the limiting reflection frequency

CITED SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vy\*p. 41, 1962, 109-119

TOPIC TAGS: Radio signal , statistical property, ionospheric propagation, reflection, meteor reflection

TRANSLATION: A study was made of the statistical characteristics of the amplitude of a signal scattered at 21 Mc (1340 kilometers) and at 20.46 Mc (1560 kilometers). For spatially-diverse reception, the

Card 1/3

L 19650-63

ACCESSION NR: AR3007002

base of antenna separation was varied in a direction perpendicular to the path. The distribution of the amplitudes of the autocorrelation functions and of the mutual-correlation functions of the diversity reception were plotted by processing of the recorded signals. Electronic computation was used to determine the correlation function along with a method of successive approximation. An analysis of 150 sessions (lasting approximately 1 minute) showed no dependence of the distribution on the frequency and on the length of the path, 25% of the distribution were of the Rayleigh type, 53% of the generalized Rayleigh type, and 22% of the Gaussian type. Thus, in 75% of the cases a coherent component was observed in the scattered signal. The spatial correlation radius for 21 Mc was  $\sim 3\lambda$ , while for 46 Mc it was  $\sim 6\lambda$ . These radii turned out to be of the same order as the dimensions of the effective scattering inhomogeneities in the ionosphere. An analysis of the correlation functions (under the assumption that the change in the volume of the inhomogeneities is due to regular drift) has shown that the average velocity of ionospheric

Card 2/3

L 19650-63

ACCESSION NR: AR3007002

5

drift is ~140, 110, and ~47 m/sec for 21, 20 and 46 Mc, respectively. These data agree with the results of other drift measurements. The statistics of the sharp bursts contained in the scattered signal were analyzed. The most frequent bursts had a duration of 0.2 second. It was established that the hourly number of strong bursts exceeds this number for meteor reflections. This indicates that the formation of scattering configurations of ionization is connected not only with meteor activity, but also with other mechanisms (atmospheric; ionization of polar aurora). Great attention was paid to the methodological aspect of the research (estimate of statistical error, data reduction procedure, etc.). S. Mikrotan.

DATE ACQ: 06Sep63

SUB CODE: PH, CC

ENCL: 00

Card 3/3



VETSHEVA, V.F., dotsent; ZAYTSEVA, N.N., starshiy prepodavatel'

Comparative study of the standardized and the operating  
standard based on the inventory data of lumber at the  
Tayturka LDK. Trudy STI 34:16-24 '63.

Studying the quantitative and qualitative yield of lumber  
from Siberian pine logs in the Far East. Ibid.:25-33  
(MIRA 17:2)

VETSHEVA, V. F.

VETSHEVA, V. F.: "Investigation of tolerances and allowances in sawmill operation in connection with the precision of operation of the basic tools". Leningrad, 1955. Min Higher Education USSR. Leningrad Order of Lenin Forestry Engineering Inst imeni Academician S. M. Kirov. (Dissertations for the Degree of Candidate of Technical Sciences.)

So: Knizhnaya letopis' No. 49, 3 December 1955. Moscow.

USOV, I.I.; VETSHTEYN, E.K.

Case of combined perforated ulcer of the duodenum and acute  
appendicitis. Khirurgia 35 no.3:111-112 Mr '59.

(MIRA 12:8)

1. Iz khirurgicheskogo otdeleniya (nach. I.I.Utesov) TSentral'-  
noy bol'nitsy (nach. I.A.Avrov) Pavlodara Kazakhskoy SSR.  
Nauchnyy rukovoditel' - zav.kafedroy gosptal'noy khirurgii  
Kuybyshevskogo meditsinskogo instituta prof. A.M.Aminev.

(PEPTIC ULCER, perf.

with acute appendicitis (Rus))

(APPENDICITIS, compl.

perforated duodenal ulcer (Rus))

VETSHTEYN, I.; SHURAYEV, V.

Aiming for the world's record. Metallurg 10 no.3:23 Mr '65.  
(MIRA 18:5)

1. Korrespondent gazety "Magnitogorskiy rabochiy" (for Vetshteyn).
2. Neshtatnyy korrespondent zhurnala "Metallurg" (for Shurayev).

VETSHTYIN, L.; SHURAYEV, V.

Magnitogorsk metallurgical combine. Metallurg. 9 no.10:5-6  
0 '64 (MIRA 18:1)

1. Neshtatnyy korrespondent zhurnala "Metallurg".

VETSHTeyN, V.Ye.; DEMIDENKO, S.G.; LECHEKHLEB, V.R.

Mass-spectrometric ion source for isotopic analysis of micro-quantities of lead. Prib. i tekhn. eksp. 6 no.2:130-131  
Mr-Apr '61. (MIRA 14:9)

1. Institut fizicheskoy khimii AN USSR.  
(Ion sources) (Lead--Analysis)

DEMIDENKO, S.G.; VETSHTEYN, V. Ye.; LECHIZHINSKY, V.R.

Evaporator for the mass spectrometric analysis of samples in  
solid phase. Istod. apr. abs. vozr. geol. obr. no. 6:11-23 '64  
(MIRA 18:2)

BURKSER, E.S. [Burksr, E.S.]; ALEKSEYEVA, Ye.N. [Alekseieva, K.M.];  
VETSHTeyN, V.Ye.; GOL'DENFEL'D, I.V.; DAVYDYUK, L.A. [Davydyuk, L.O.];  
DEMIDENKO, S.G. [Demydenko, S.H.]; YELISEYEVA, G.D. [Ieliseieva, H.D.];  
LECHEKHLEB, V.R. [Lechekhlb, V.R.]; SHCHERBAK, M.P.

Accurate determination of the absolute age of rocks by the lead  
method. Geol.zhur. 21 no.5:48-57 '61. (MIRA 14:10)

1. Institut geologicheskikh nauk AN USSR.  
(Geological time) (Mineralogy)



VETSHTEYN, V.Ye.; DEMIDENKO, S.G.

Ion receiver for a double-beam mass spectrometer for an isotopic analysis of nitrogen and oxygen. Prib.1 tekhn. eksp. 6 no.5:185-186 S-0 '61. (MIRA 14:10)

1. Institut fizicheskoy khimii AN USSR.  
(Mass spectrometry--Equipment and supplies)

PUNCOCHAR, Z., inz.; HRBEK, A.; CHVATAL, Vlad., inz.; VETSIKA, A.; KECLIK, V.;  
JENICEK, L.; POKORNY, A.; HOREJS, S.; ZIDEK, inz.

Information on metallurgy. Hut listy 16 no.6:445-455 Je '61.

FILIPOV, F., prof.; VASILEV, N.; VETSKA, P.

Bone tumors of the skull. Khirurgia, Sofia 14 no.2/3:294-296 '61.

1. Klinika po nevrokhirurgia pri Instituta za spetsializatsiia i  
usuvurshenstvuvane na lekarite.

(SKULL neopl)

USUNOV, G.; IOZHINOV, S.; GEORGIEV, I.; PETROV, P.; IANKOV, Ia.; SAKHATCHIEVA, L.;  
VETSIKA, P.

Symptomatic epilepsy in supra- and sub-tentorial tumors of the brain.  
Suvrem. med., Sofia 8 no.11:51-59 1957.

(BRAIN NEOPLASMS, complications,  
supratentorial & subtentorial, causing epilepsy (Bul))  
(EPILEPSY, etiol. & pathogen.  
subtentorial & supratentorial tumors (Bul))

VETSKALINA, O.F.

27351: SOLOVYANET, V.M. I VETSKALINA, O.F. - Klinicheskoye znachenie sulenovo-osadochnoy reaktsii kak metoda funktsional'nogo issledovaniya pecheni. Klinich. Meditsina, 1949, No.8, s. 83-85.

S0: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

VETSKHVADE, G.  
USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 61

Author : G. Vetskhvadze

Inst : Tiflis University, Academy of Sciences of USSR.

Title : Quantum-Mechanical Study of Pure Ion State of BeH .

Orig Pub : Tr. Tbilissk. un-ta, 1957, 62, 1-10

Abstract : The energy of the system  $\text{Be}^2+\text{H}^-$  in the pure ion state was computed depending on the internuclear distance. The wave function of the system was taken as a linear combination of products of s-orbits of Be and H with one variation parameter of the scale in accordance with the symmetrization scheme of coordinate wave functions of Fok (Fok V.A., Dokl. AN SSSR, 1950, 73, No 4; Zh. eksperimen. i teor. fiziki, 1940, 10, No 9-10, 961). All the integrals with the exception of the interchange one were reduced to those tabulated

Card 1/2

USSR/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 61

earlier. The computed dissociation energy and equilibrium distance in  $\text{Be}^{2+}\text{H}^-$  are equal to 8.88 ev and 2.46 at. un. correspondingly.

Card 2/2

VETSNER, A.M., kand.med.nauk

Correlation of neurological symptoms and mental disorder in  
vascular diseases and atrophic processes in the cerebral  
cortex. Trudy Gos.nauch-issl.inst.psikh. 25:131-156 '61.

(MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii  
Ministerstva zdravookhraneniya RSFSR.

(CEREBROVASCULAR DISEASE) (MENTAL ILLNESS)



VETSNER, A.M.

Mitigating therapeutic bloodletting in the cerebral form of hypertension. Trudy 1-go MMI 25:240-248 '63. (MIRA 17:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut psikiatrii Ministerstva zdravookhraneniya RSFSR (direktor - prof. D.D.Fedotov) i kafedra psikiatrii 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (zav. kafedroy prof. V.M.Banshchikov).

VETSNER, V.Ye.

Conference of psychiatrists of the republics of Central Asia  
and Kazakhstan. Zdrav. Kazakh. 21 no.11:75-77 '61.  
(MIRA 15:7)

(PSYCHIATRY—CONGRESSES)

SERYAKOV, Ivan Maksimovich: Prinimali uchastiye: REMDAROV, G.; VETSRUMB, N.;  
DOBROVOL'SKIY, V.; KAPLAN, S.; KOMZA, G.; KOROLEV, L.; KUZGINOV, T.;  
PETROV, V.; SUMAKOV, M.; SMOLIANINOV, N.; USHAKOV, I.; USHAKOV, G.;  
ZAYCHIK, M.I., prof., doktor tekhn.nauk, nauchnyy red.; KOLOMIYFSEVA,  
O.I., red.; ROZEN, E.A., tekhn.red.

[The story of the tractor] Povest' o traktore. Moskva, Izd-vo  
"Sovetskaya Rossiya," 1960. 318 p. (MIRA 13:12)  
(Tractors)

VETSRUMB, S., inzh.

Projector made of a viewer. Nauka i zhizn' 29 no.3:92-93 Mr '62.  
(Projectors) (MIRA 15:7)

CZECHOSLOVAKIA/Chemical Technology - Cellulose and Its  
Derivatives. Paper.

H.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 56035

Author : Vetsler

Inst :

Title : Wood Pulp Cellulose.

Orig Pub : Papir a celuloza, 1957, 12, No 3, 67-68

Abstract : Production of wood pulp cellulose from leafy varieties  
on Great Northern Paper (USA) plant.

Card 1/1

38

VETSRUMB, S., inzh.

Episcopo. Nauka i zhizn' 29 no.2:82-83 P '62. (MIRA 15:3)  
(Lanterns)

VETSRUMB, S., inzh.

Photolaboratory in a box. Nauka i shisn' 29 no.9:104-105 S '62.  
(MIRA 15:10)

(Photography—Equipment and supplies)

NOVAK, I.I.; VETTEGREN', V.I.

Effect of orientation on the crystallinity of capron. Vysokom. soed.  
7 no.6:1027-1029 Je '65. (MIRA 18:9)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.



ZHURKOV, S.N.; NOVAK, I.I.; LEVIN, B.Ya.; SAVITSKIY, A.V.; VETTEGREN', V.I.

Relation between the strength of a polymer and its molecular orientation. Vysokomol.soyed. 7 no.7:1203-1207 J1 '65.

(MIRA 18:8)

1. Fiziko-tekhnicheskii institut imeni Ioffe AN SSSR.

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

gical process but also the destruction of

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

S/051/63/014/004/016/026  
039/E420

AUTHORS: Vettegren', V.I., Novak, I.I.

TITLE: Calculation of the absorption of a convergent light beam in a plane-parallel plate

PERIODICAL: Optika i spektroskopiya, v.14, no.4, 1963, 545-552

TEXT: Expressions for the flux  $F$  and optical density  $D$  are derived. From these expressions are obtained numerical values of optical density  $D$  and  $D_{\perp}$  for different values of the ratio of the aperture to the refractive index  $N_2A/n$  (for  $N_2A/n$ ,  $A = 2.4$ ), dichroism  $k_{\parallel}/k_{\perp}$  and optical density  $kd$  corresponding to absorption in a parallel beam. From known values of  $D$  and  $kd$  and for different values of polarization of the electric vectors  $E_{\parallel}$  and  $E_{\perp}$  the deviation  $\Delta D/kd$  from the law of Lambert-Beer is calculated.

$$\frac{\Delta D}{kd} \cdot 100\% = \frac{D - k_{\perp}}{kd}$$

Values of  $D_{\parallel}/D_{\perp}$ ,  $k_{\parallel}/k_{\perp}$  and  $\frac{\Delta D}{kd} \cdot 100\%$  for values of  $D$

Card 1/2

$N_2A/n$  from 0.428 to 0.857 are fully tabulated. This shows that the deviation depends strongly on  $k_{II}/k_I$  and  $k_{II}d$ . For  $N_2A/n = 0.772$  and  $k_{II}/k_I = 0.2$  the value of  $(\Delta D_{II})/(k_{II}d)$  is 100%.

Comparison with the results of other workers is made. There are 3 figures and 1 table.

SUBMITTED: June 9, 1962

Card 2/2



NOVAK, I.I.; VETTEGREN', V.I.

Molecular orientation in capron fibers studied by infrared spectroscopy. Vysokom. soed. 6 no.4:706-709 Ap '64.

(MIRA 17:6)

1. Fiziko-tekhnicheskiy institut imeni A.F. Ioffe AN SSSR.

VETTER, Ambrus, dr.

Anti-cancer services in the Somogy Region. Nepegesszegy 42  
no.2:50-57 F '61.

1. Kozlemeny a Somogy megyei Tanacs VB. Onkologiai Gondozojabol.  
(NEOPLASMS prev & control)



CA 7

1ST AND 2ND SQUARES

PROCESSED AND RE-ENTERED

Microanalytical methods in the industrial laboratory. Application of the "micro Dumas" to substances of low nitrogen content. *Fr. VETTER. Mikrochemie 12, 102-8 (1932); cf. C. A. 26, 2888.*—The N content of the oils, etc., is very low so that some change in the micro Dumas method is necessary. The first possibility is increasing the wt. of sample from say 4 mg. to 40 and this necessitates an increase in the size of the combustion tube. Suitable changes are suggested for doing this. A second possibility is to make the azotometer so that it will read smaller vols. accurately. To this end, a new design of azotometer is suggested, with a filtering appliance but without stopcock. The diam. of the tube is reduced from about 3.6 mm. to about 1 mm.; consequently a small vol. of the gas occupies more space on the scale and when the stopcock is eliminated there is less danger of error in measuring a very small vol. W. T. H.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGION: 174 83100

101001-101002

101003-101004

101005-101006

101007-101008

101009-101010

101011-101012

101013-101014

101015-101016

101017-101018

101019-101020

101021-101022

101023-101024

101025-101026

101027-101028

101029-101030

101031-101032

101033-101034

101035-101036

101037-101038

101039-101040

101041-101042

101043-101044

101045-101046

101047-101048

101049-101050

101051-101052

101053-101054

101055-101056

101057-101058

101059-101060

101061-101062

101063-101064

101065-101066

101067-101068

101069-101070

101071-101072

101073-101074

101075-101076

101077-101078

101079-101080

101081-101082

101083-101084

101085-101086

101087-101088

101089-101090

101091-101092

101093-101094

101095-101096

101097-101098

101099-101100

101101-101102

101103-101104

101105-101106

101107-101108

101109-101110

101111-101112

101113-101114

101115-101116

101117-101118

101119-101120

101121-101122

101123-101124

101125-101126

101127-101128

101129-101130

101131-101132

101133-101134

101135-101136

101137-101138

101139-101140

101141-101142

101143-101144

101145-101146

101147-101148

101149-101150

101151-101152

101153-101154

101155-101156

101157-101158

101159-101160

101161-101162

101163-101164

101165-101166

101167-101168

101169-101170

101171-101172

101173-101174

101175-101176

101177-101178

101179-101180

101181-101182

101183-101184

101185-101186

101187-101188

101189-101190

101191-101192

101193-101194

101195-101196

101197-101198

101199-101200

101201-101202

101203-101204

101205-101206

101207-101208

101209-101210

101211-101212

101213-101214

101215-101216

101217-101218

101219-101220

101221-101222

101223-101224

101225-101226

101227-101228

101229-101230

101231-101232

101233-101234

101235-101236

101237-101238

101239-101240

101241-101242

101243-101244

101245-101246

101247-101248

101249-101250

101251-101252

101253-101254

101255-101256

101257-101258

101259-101260

101261-101262

101263-101264

101265-101266

101267-101268

101269-101270

101271-101272

101273-101274

101275-101276

101277-101278

101279-101280

101281-101282

101283-101284

101285-101286

101287-101288

101289-101290

101291-101292

101293-101294

101295-101296

101297-101298

101299-101300

101301-101302

101303-101304

101305-101306

101307-101308

101309-101310

101311-101312

101313-101314

101315-101316

101317-101318

101319-101320

101321-101322

101323-101324

101325-101326

101327-101328

101329-101330

101331-101332

101333-101334

101335-101336

101337-101338

101339-101340

101341-101342

101343-101344

101345-101346

101347-101348

101349-101350

101351-101352

101353-101354

101355-101356

101357-101358

101359-101360

101361-101362

101363-101364

101365-101366

101367-101368

101369-101370

101371-101372

101373-101374

101375-101376

101377-101378

101379-101380

101381-101382

101383-101384

101385-101386

101387-101388

101389-101390

101391-101392

101393-101394

101395-101396

101397-101398

101399-101400

101401-101402

101403-101404

101405-101406

101407-101408

101409-101410

101411-101412

101413-101414

101415-101416

101417-101418

101419-101420

101421-101422

101423-101424

101425-101426

101427-101428

101429-101430

101431-101432

101433-101434

101435-101436

101437-101438

101439-101440

101441-101442

101443-101444

101445-101446

101447-101448

101449-101450

101451-101452

101453-101454

101455-101456

101457-101458

101459-101460

101461-101462

101463-101464

101465-101466

101467-101468

101469-101470

101471-101472

101473-101474

101475-101476

101477-101478

101479-101480

101481-101482

101483-101484

101485-101486

101487-101488

101489-101490

101491-101492

101493-101494

101495-101496

101497-101498

101499-101500

101501-101502

101503-101504

101505-101506

101507-101508

101509-101510

101511-101512

101513-101514

101515-101516

101517-101518

101519-101520

101521-101522

101523-101524

101525-101526

101527-101528

101529-101530

101531-101532

101533-101534

101535-101536

101537-101538

101539-101540

101541-101542

101543-101544

101545-101546

101547-101548

101549-101550

101551-101552

101553-101554

101555-101556

101557-101558

101559-101560

101561-101562

101563-101564

101565-101566

101567-101568

101569-101570

101571-101572

101573-101574

101575-101576

101577-101578

101579-101580

101581-101582

101583-101584

101585-101586

101587-101588

101589-101590

101591-101592

101593-101594

101595-101596

101597-101598

101599-101600

101601-101602

101603-101604

101605-101606

101607-101608

101609-101610

101611-101612

101613-101614

101615-101616

101617-101618

101619-101620

101621-101622

101623-101624

101625-101626

101627-101628

101629-101630

101631-101632

101633-101634

101635-101636

101637-101638

101639-101640

101641-101642

101643-101644

101645-101646

101647-101648

101649-101650

101651-101652

101653-101654

101655-101656

101657-101658

101659-101660

101661-101662

101663-101664

101665-101666

101667-101668

101669-101670

101671-101672

101673-101674

101675-101676

101677-101678

101679-101680

101681-101682

101683-101684

101685-101686

101687-101688

101689-101690

101691-101692

101693-101694

101695-101696

101697-101698

101699-101700

101701-101702

101703-101704

101705-101706

101707-101708

101709-101710

101711-101712

101713-101714

101715-101716

101717-101718

101719-101720

101721-101722

101723-101724

101725-101726

101727-101728

101729-101730

101731-101732

101733-101734

101735-101736

101737-101738

101739-101740

101741-101742

101743-101744

101745-101746

101747-101748

101749-101750

101751-101752

101753-101754

101755-101756

101757-101758

101759-101760

101761-101762

101763-101764

101765-101766

101767-101768

101769-101770

101771-101772

101773-101774

101775-101776

101777-101778

101779-101780

101781-101782

101783-101784

101785-101786

101787-101788

101789-101790

101791-101792

101793-101794

101795-101796

101797-101798

101799-101800

101801-101802

101803-101804

101805-101806

101807-101808

101809-101810

101811-101812

101813-101814

101815-101816

101817-101818

101819-101820

101821-101822

101823-101824

101825-101826

101827-101828

101829-101830

101831-101832

101833-101834

101835-101836

101837-101838

101839-101840

101841-101842

101843-101844

101845-101846

101847-101848

101849-101850

101851-101852

101853-101854

101855-101856

101857-101858

101859-101860

101861-101862

101863-101864

101865-101866

101867-101868

101869-101870

101871-101872

101873-101874

101875-101876

101877-101878

101879-101880

101881-101882

101883-101884

101885-101886

101887-101888

101889-101890

101891-101892

101893-101894

101895-101896

101897-101898

101899-101900

101901-101902

101903-101904

101905-101906

101907-101908

101909-101910

101911-101912

101913-101914

101915-101916

101917-101918

101919-101920

101921-101922

101923-101924

101925-101926

101927-101928

101929-101930

101931-101932

101933-101934

101935-101936

101937-101938

101939-101940

101941-101942

101943-101944

101945-101946

101947-101948

101949-101950

101951-101952

101953-101954

101955-101956

101957-101958

101959-101960

101961-101962

101963-101964

101965-101966

101967-101968

101969-101970

101971-101972

101973-101974

101975-101976

101977-101978

101979-101980

101981-101982

101983-101984

101985-101986

101987-101988

101989-101990

101991-101992

101993-101994

101995-101996

101997-101998

101999-102000

BELCHER, E.H.; COHEN, M.; DUDLEY, R.A.; PARKER, H.G.; TSIEN, K.C.; VETTER, H.

Progress in the use of isotopes and radiation sources in  
medicine. Cas. lek. cesk. 104 no.19:100-104 14 My '65.

1. MAAE a WHO.

VETTER, G.

KOLMAN, E

p 4

16(1)

PHASE I BOOK EXPLOITATION SOV/1366

Istoriko-matematicheskiye issledovaniya, vyp. 11 (Research in Mathematical History, Nr 11) Moscow, Fizmatgiz, 1958. 792 p. 3,000 copies printed.

Eds. (Title page): Rytkin, G.F. and Yushkevich, A.P.; Ed. (Inside book): Konoplyankin, A.A.; Tech. Ed.: Murashova, N. Ya.

**PURPOSE:** This book is intended for mathematicians and others interested in the history of mathematics, and may serve as the basis for a suitable university text on the history of mathematics, thereby filling the most serious gap in Soviet mathematical literature.

**COVERAGE:** This book contains reports made by members of the section on the history of mathematics at the Third All-Union Mathematical Congress which discussed problems of the history of mathematics and various articles on the significance of the history of mathematics

Card 1/8

Vetter, G. (Prague). A Short Essay On the Development of Mathematics in Czech-dominated Areas Up to the Battle of Miele Gora

461

VEITER, I.

"Nikolai Ivanovich Lobachevskii." p. 119. (Matematicheskoe nasledstvo Lobachevskogo.  
Vol. 3, No. 4, 1953, Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March 1954, Uncl.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"



**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

Yaffe AM SSER (Pharmacotechnical

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

VETTERGREN, V.I. NOVAK, I.I.

Calculating the absorption of a convergent light beam in a  
plane-parallel plate. Opt. i spektr. 14 no.4:545-552 Ap '63.  
(MIRA 16:6)

(Spectrum, Infrared)

VEJTEPL, K.

VEJTEPL, K. R. Vachek and R. Smetana's Ceske svatske pisne zlidovele (Czech Songs Which Developed Into Folk Songs); a book review. p. 95. Professor Jiri Horak named academician. p. 101.

Vol. 5, no. 1, 1957  
CESKOSLOVENSKA ETHNOGRAFIE  
GEOGRAPHY & GEOLOGY  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SHEVCHIK, F.; VETTERL', V.

Complex dielectric permeability of solutions in the range of centimeter waves. Biofizika 10 no.3:441-446 '65.

(MIRA 18:11)

1. Institut biofiziki AN Chekhoslovatskoy Sotsialisticheskoy Respubliki, Brno, Chekhoslovakiya. Submitted Oct. 7, 1964.

(MIRA 18:11)

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**



z/0039/64/025/006/0346/0352

ACCESSION NR: AP4039422

AUTHOR: Vetterl, Vladimir (Graduate in physics, Candidate of sciences)

TITLE: Measurement of differential capacitance of an electrical double layer

SOURCE: Slaboproudy obzor, v. 25, no. 6, 1964, 346-352

TOPIC TAGS: electrical double layer, capacitance, differential capacitance, differential capacitance measurement, capacitor charge characteristic, mercury drop electrode, TESLA TM351 bridge, bridge circuit

ABSTRACT: The article describes a method for measuring the differential capacitance of an electric double layer formed on the surface of a mercury drop electrode. A method for adapting the TESLA TM351 bridge for this purpose is given and the equations for computing this differential capacitance by the measured values are derived. An analysis of the bridge balance moment exerts a basic influence on the measurement. The method described permits a measuring accuracy of 3% to be attained. The measurement results compare favorably with the experimental errors contained in the literature. The findings were compared with the results of D. C. Grahame and R. Parsons ("Components of Charge and Potential in

Card 11/2

ACCESSION NR: AP4039422

the Inner Region of the Electrical Double Layer: Aqueous Potassium Chloride Solutions in Contact with Mercury at 25C." Journ. Am. Chem. Soc., 83, (1961), 1291-1296). The lower values in the anode branches of the curve plotted for a KCl solution capacitance curve are probably caused by an imperfect removal of recrystallization impurities. The method was used for analyzing the absorption of a surface with an electric charging of the molecules. This fact is important from a biological point of view. Original article has: 11 figures and 30 equations.

ASSOCIATION: Biofyzikalni ustav CSAV, Brno (Biophysics Institute CSAV)

SUBMITTED: 20Jan64

DATE ACQ: 19Jun64

ENCL: 00

SUB CODE: EE

NO REF SOV: 000

OTHER: 011

Card 2/2

VETTERL, Vladimir

Use of the Q-meter in conductometric measurements on high frequencies. Chem listy 57 no.6:636-638 Jo '63.

1. Biofysikalni ustav, Ceskoslovenska akademie ved, Brno.

VETTERL, Vladimir

Simple circuit for frequency measurement. Sdel tech 11 no.10:  
373-374 0 '63.

CZECHOSLOVAKIA

VETTERL, V

Biophysical Institute, Czechoslovak Academy of  
Sciences (Biophysikalisches Institut, Tschecho-  
slowakische Akademie der Wissenschaften), Brno

Prague, Collection of Czechoslovak Chemical Communications,  
No 5, May 1966, pp 2105-2126

"Differential capacity of a double electrode layer  
in the presence of some purine and pyrimidine deriva-  
tives."

VETTSLER, Zhan [Wetzler, Jean]

Looking after the workers' interests is the concern of trade  
unions. Vsem. prof. dvizh. no.1:25-28 Ja '57. (MIRA 14:9)  
(Bulgaria--Trade unions) (Labor and laboring classes)

BC

Chemical treatment of winter wheat seed to increase its frost-resistance. A. VERUCHOVA (Compt. rend. Acad. Sci. U.R.S.S., 1959, 24, 604-608).—Effects of numerous inorg. salts on the stability of plant colloids are examined. Treatment of seeds with 0.01—0.08% salts or -hydroxides of alkali metals increased the frost-resistance of plants obtained from them. A. G. P.

B-3-1

Ve. T. 15 Key, 1. 1. 1.

ANTOSHIN, Ye. V.

p. 3

PLANE 2 BOOK REFLECTIONS

007/1553

Spetsialnaya tekhnika mashinostroyeniya i avtomatizatsiya  
1. In: Tekhnologiya remonta (Handbook for Mechanics of Machine-Building  
Plants in Two Volumes. Vol. II: Technology of Repair Operations) Moscow,  
Mashgiz, 1958. VII, 1999 p. 30,000 copies printed.

Red. M. I. Tsud. Editor, Engineer) M. I. E. S. Topin. Engineer) Tech. M. I.  
T. I. Tsud. Editor, Engineer) M. I. E. S. Topin. Engineer) Tech. M. I.  
T. I. Tsud. Editor, Engineer) M. I. E. S. Topin. Engineer) Tech. M. I.  
T. I. Tsud. Editor, Engineer) M. I. E. S. Topin. Engineer) Tech. M. I.

REMARKS: This handbook is intended for personnel responsible for repair and main-  
tenance operations in a machinery-manufacturing plant.

CONTENTS: The handbook contains information pertinent to the organization of  
repair and maintenance operations, design-preparation of maintenance work, and  
economic of maintenance. Information on scientific research organizations and  
plants participating in preparation of this volume is included in the appendix  
of Volume I (007/1553). There are 30 references. Main sections: general methods  
of maintenance; organization of maintenance work; maintenance of various types of  
bearing, and pipe-fitting; finishing operations involved in maintenance work;  
checking parts for precision; basic bench and assembly work; maintenance of  
power equipment; and maintenance of foundations.

Parts made of metal powders (ballistics, V.V., Engineer)

Basic data

Use of parts made of metal powders in maintenance of equipment

Use of metal

Technology of manufacturing parts from metal powders

Use and manufacture of nonmetallic parts and products in maintenance

of equipment

Parts made from plastic laminated wood (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)

Plastic granular waste (Laptev, M.A., Engineer)



VETUKHOV, Ye.A., kand. tekhn. nauk

Distribution of freight yards in junctions. Zhel. dor. transp. 46  
no.9:63-64 S '64.

VETUKHNOVSKAYA, Yu.N.; KUZ'MIN, A.D.

Some discrete radio emission sources at a wavelength of 9.6 cm.  
Trudy Fiz. inst. 28:155-166 '65. (MIRA 18:7)

... observation in considerable detail and presents the supporting test results (list

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

**"APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8**

**APPROVED FOR RELEASE: 09/01/2001**

**CIA-RDP86-00513R001859630001-8"**

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

1. 8500-035

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8

ASSOCIATION: DOME

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859630001-8"

VETUKHNOVSKIY, F. Ya.

Coverings for a graph provided by a system of neighborhoods  
of its vertices. Dokl. AN SSSR 158 no.1:21-24 3-0 '64  
(MIRA 17:8)

1. Predstavleno akademikom P.S. Novikovym.



**AUTHOR:** Vetukhnovskiy, F.F. (Moscow) SOV/20-123-3-1/54

**TITLE:** On the Number of Undecomposable Nets and Some of Their Properties (O chisle nerazlozhimyykh setey i nekotorykh ikh svoystvakh)

**PERIODICAL:** Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 3, pp 391 - 394 (USSR)

**ABSTRACT:** The paper starts from the investigations of Trakhtenbrot papers [Ref 1,2], in which it is shown that every double-pole net is a superposition of undecomposable nets. The possibility is investigated to estimate from below the number  $\phi(n)$  of the nonisomorphic, undecomposable nets with  $n$  edges. A class consisting of  $\phi'(n)$  nonisomorphic, undecomposable nets is effectively constructed, where for sufficiently large  $n$  it holds:

$$\phi'(n) > \left( \frac{n}{2e \ln^2 n} \right)^n. \text{ Here it is } \phi(n) \gg \phi'(n).$$

Furthermore two criteria for the undecomposability of nets are given. However, the criteria are applicable only to special,

Card 1/2

On the Number of Undecomposable Nets and Some  
of Their Properties

SOV/20-123-3-1/54

constructively given nets.

There are 4 figures and 6 references, 5 of which are Soviet  
and 1 is American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova  
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: June 28, 1958, by M.V. Keldysh, Academician

SUBMITTED: June 24, 1958

Card 2/2

VETUKHNOVSKAYA, Yu.N.; KUZ'MIN, A.D.; KUTUZA, B.G.; LOSOVSKIY, B.Ya.;  
SALOMONOVICH, A.Ye.

Measuring the radio emission spectrum of the night side of Venus  
in the microwave band. Izv. vys. ucheb. zav.; radiofiz. 6 no.5:  
1054-1056 '63. (MIRA 16:12)

1. Fizicheskiy institut imeni Lebedeva AN SSSR.

VETUKHNOVSKIY, F.Ya.

Coverings and minimum coverings of a graph by a system of  
neighborhoods of its vertices. Disk. anal. no.3:3-24 '64.  
(MIPA 18:9)

16.5500 16.7000 (3503)

32811  
S/020/62/142/001/007/021  
B104/B102

AUTHOR: Vetukhnovskiy, F. Ya.

TITLE: Evaluation of the number of plane graphs

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 1, 1962, 50-53

TEXT: In this topological investigation of the properties of grids and their graphs, the conception of "planar graph" is defined first. A graph is planar when it has a realization lying in a plane. This plane is called realization plane. In a detailed study it is shown that the number  $G_n$  of coupled nonisomorphous graphs with  $n$  edges is evaluated with  $C_1^n < G_n < C_2^n$ , where  $C_1$  and  $C_2$  are constants. This inequality permits setting up asymptotic expressions of the complexity of a realization of functions of algebraic logic with plane circuits. Problems are investigated, which are connected with the number of plane realization of a graph. E. D. Stotskiy is mentioned. There are 4 figures and 6 references: 2 Soviet and 4 non-Soviet. The two references to English-language publications read as follows: H. Whitney, Trans. Am. Math. Soc., 34, 2, 339 (1932);

Card 1/2

32811

S/020/62/142/001/007/021  
B104/B102

Evaluation of the number ...

J. Riordan, C. E. Shannon, J. Math. Phys., 21, no. 2, 83 (1942).

PRESENTED: July 26, 1961, by A. I. Berg, Academician

SUBMITTED: June 30, 1961

Card 2/2

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.

New paint equipment (survey of foreign literature).  
Lakokras.mat.i ikh prim. no.1:77-80 '63. (MIRA 16:2)  
(Paint machinery)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; USHAKOVA, V.I.

Improving the methods of the preparation of metal surfaces for  
painting. Lakokras.mat.i ikh prim. no.6:44-49 '62. (MIRA 16:1)  
(Protective coatings) (Metals--Finishing)



VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Improved painting equipment and methods; review of foreign  
literature. Lakokras. mat. i ikh prim. no.6:81-86 '61.  
(MIRA 15:3)  
(Painting; Industrial--Equipment and supplies)

DUBROVA, B.M.; BURENKOVA, N.V.; VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.;  
RAKHLINA, Z.V.

Foreign science and technology. Lakokras. mat. 1 ikh prim.  
no.5:81-86 '63. (MIRA 16:11)

IVANOV, V.I.; VLADYCHINA, Ye.N.; VETUKHNOVSKIY, Z.B.

Tasks of the Scientific Research Institute of the technology of  
Lacquer and Paint Application (NIITLP) as seen in the light of  
the resolutions of the December (1963) Plenum of the Central  
Committee of the CPSU. Lakokras.mat. 1 ikh prim. no.2:1-2 '64.  
(MIRA 17:4)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

New methods and devices for testing protective coatings.  
Lakokras.mat. i ikh prim. no.2:84-87 '64. (MIRA 17:4)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.

Preparation of surface and industrial painting in France. Lakokras.  
mat. i ikh prim. no.5:85-86 '61. (MIRA 15:3)  
(France--Painting, Industrial)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Equipment for painting articles by the flow coating method.  
Lakokras.mat. i ikh prim. no.2:81-88 '60. (MIRA 14:4)  
(Painting, Industrial—Equipment and supplies)

S/081/61/000/021/087/094  
B107/B147

AUTHORS: Vetukhnovskiy, Z. B., Darazhio, G. N., Rakhlina, Z. V.

TITLE: New methods and devices for testing varnish coatings and materials (Survey of foreign publications)

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 460, abstract 21P143 (Lakokrasochn. materialy i ikh primeneniye, no. 1, 1961, 79-83)

TEXT: This is a brief description of new methods and devices for testing varnish coatings and materials basing on a survey of foreign publications. 9 references. [Abstracter's note: Complete translation.]

Card 1/1

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

New methods and instruments for testing paint coatings and materials.  
Lakokras.mat.i ikh prim. no.1:79-83 '61. (MIRA 14:4)  
(Paint materials—Testing)



VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Modernization of industrial painting equipment and methods of painting. Lakokras.mat. i ikh prim. no.2:77-86 '61.

(MIRA 14:4)

(Painting, Industrial—Equipment and supplies)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; RAKHLINA, Z.V.

Improvement of painting equipment and painting methods; review  
of foreign literature. Lakokras.mat.1 ikh prim. no.3:87-93 '62.  
(MIRA 15:7)

(Paint machinery)

(Painting, Industrial)

VETUKHNOVSKIY, Z.B.; DARAZHIO, G.N.; USHAKOVA, V.I.

Information on the improved methods for industrial painting of  
articles and on painting equipment; literary review. Lakokras.  
mat. 1 ikh prim. no.4:69-72 '63. (MIRA 16:10)

VETUKHNOVSKIY, Z.B.; MALOVITSKIY, V.S.

Economic effectiveness of using new paint materials in the  
furniture industry. Lakokras. mat. i ikh. prim. no.4:57-60  
'61. (MIRA 16:7)

(Furniture industry) (Paint materials)